

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	4	((flexible or membrane or movable) with (separat\$3 or divid\$3 or secur\$3) with (liquid or ink) near (two or different or fixing or coat\$3)).clm. "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/06/13 10:48
L4	15	((flexible or membrane or movable) with (separat\$3 or divid\$3 or secur\$3) with (liquid or ink) near (two or different or fixing or coat\$3 or separate or unique)).clm. "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/06/13 10:51
S1	8	("20020070239" "6523762" "6142607").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 08:19
S2	15	("1273355" "1149602").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:11
S3	1505	347/56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 08:18
S4	2	"20040263567"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 09:21
S5	1539	347/44 or 347/45 or 347/46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 08:44
S6	1	2003-177404.NRAN.	DERWENT	AND	OFF	2006/02/27 08:57

## EAST Search History

S7	10	FLICK.in. and HESS.in. and HU.in. and LUGINBUHL.in. and WEBER.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:05
S8	4	"01103653"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 09:21
S9	10	"1103653"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 09:22
S10	42	("6142607" "5635337" "1005917" "0985534" "1046917" "0516565" "0923957" "1005916" "0006388" "9515822").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 09:32
S11	66	"347"/\$3 and membrane same (high near2 densit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:05
S12	24	"347"/\$3 and membrane same (high near2 densit\$3) same (nozzle\$1 or ejector\$1 or orifice\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:22
S13	3704	"347"/\$3 and (densit\$3) with (nozzle\$1 or ejector\$1 or orifice\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:23
S14	230	"347"/\$3 and (densit\$3) with (nozzle\$1 or ejector\$1 or orifice\$1) and micrometer\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:23

## EAST Search History

S15	13	"347"/\$3 and (densit\$3) with (nozzle\$1 or ejector\$1 or orifice\$1) same micrometer\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:27
S16	1797	"347"/\$3 and high\$2 with nozzle\$1 with density	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:30
S17	1797	"347"/\$3 and high\$2 with nozzle\$1 with density	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 10:38
S18	1407	"347"/\$3 and high\$2 with nozzle\$1 with density and (pzt or piezo\$electric or piezo or transducer or nebuliz\$3 or nebulis\$3 or spray\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:15
S19	63	"347"/\$3 and high\$2 with nozzle\$1 with density and (pzt or piezo\$electric or piezo or transducer or nebuliz\$3 or nebulis\$3 or spray\$3) and "48,828"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:26
S20	37	"347"/\$3 and high\$2 with nozzle\$1 with density same cavit\$3 and (pzt or piezo\$electric or piezo or transducer or nebuliz\$3 or nebulis\$3 or spray\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:16
S21	469	"347"/\$3 and ink with viscosity with (mPas or cps or centipoise)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:29
S22	5	"347"/\$3 and ink with viscosity with (mPas or cps or centipoise) and (porous with medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:30

## EAST Search History

S23	6	"347"/\$3 and (porous with medium with (cavity or chamber or space)) and (vibrat\$3 with attach\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:37
S24	23	"347"/\$3 and (porous with medium with (cavity or chamber or space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:37
S25	11	"347"/\$3 and (porous with medium with (cavity or chamber or space)) and (piezo\$electric or PZT or transducer or piezo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:40
S26	275	"347"/\$3 and (porous with (cavity or chamber or space)) and (piezo\$electric or PZT or transducer or piezo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:41
S27	241	"347"/\$3 and (porous with (liquid or ink) with (cavity or chamber or space)) and (piezo\$electric or PZT or transducer or piezo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:50
S28	3	"347"/\$3 and vibrat\$3 with (removabl\$1 with attach\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:51
S29	5	"347"/\$3 and sub\$space with separat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:52
S30	1	"347"/\$3 and sub\$space with separat\$3 with (film or membrane\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:53

## EAST Search History

S31	691	"347"/\$3 and (ink or liquid) with separat\$3 with (film or membrane\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:56
S32	6	"347"/\$3 and (ink or liquid) with types with separat\$3 with (film or membrane\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 12:55
S33	325	"347"/\$3 and (ink or liquid) with separat\$3 with (film or membrane\$1) and (PZT or piezo\$electric or piezo or transducer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:02
S34	26	S5 and (ink or liquid) with separat\$3 with (film or membrane\$1) and (PZT or piezo\$electric or piezo or transducer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:08
S35	0	S5 and (ink or liquid) with separat\$3 with (film or membrane\$1) same ((print\$3 or eject\$3) with (together))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:08
S36	0	S5 and (ink\$1 or liquid\$1) with separat\$3 with (film or membrane\$1) same ((print\$3 or eject\$3) with (together))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:08
S37	6	"347"/\$3 and (ink\$1 or liquid\$1) with separat\$3 with (film or membrane\$1) same ((print\$3 or eject\$3) with (together))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:09
S38	7	"347"/\$3 and (ink\$1 or liquid\$1) with (separat\$3 or apart or section\$3 or sectionalized) with (film or membrane\$1) same ((print\$3 or eject\$3) with (together))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:11

## EAST Search History

S39	1231	"347"/\$3 and (ink\$1 or liquid\$1) with (separat\$3 or apart or section\$3 or sectionalized) with (film or membrane\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 13:11
S40	8	"1273355"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 11:21
S41	1	2003-177404.NRAN.	DERWENT	AND	OFF	2006/03/01 11:15
S42	2	"20030085966"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:26
S43	5	"6640804"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:26
S44	39	(piezo\$electric or PZT or piezo) with substrates with integrally	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:37
S45	3	(piezo\$electric or PZT or piezo) same two with substrates with integrally	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:38
S46	45	(piezo\$electric or PZT or piezo) same substrates with integrally	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:38
S47	180	(piezo\$electric or PZT or piezo) same substrates with two with one	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:39

## EAST Search History

S48	773	(piezo\$electric or PZT or piezo) and substrates with two with one	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:39
S49	2	(piezo\$electric or PZT or piezo) same substrates with material with integrally	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 12:39
S50	17	"6669333"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:01
S51	2	"20020158952"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:01
S52	1120	((sub\$space) or (separat\$3 with space\$1)) with (liquid or ink) with (different or colors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:05
S53	34	((sub\$space) or (separat\$3 with space\$1)) with (membrane or film) with (liquid or ink) with (different or colors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:06
S54	6	(different with ink with type\$1 with membrane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:07
S55	1	2002-099005.NRAN.	DERWENT	AND	OFF	2006/03/01 13:10
S56	7258	(different with (ink or liquid) with (film or membrane))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:12

## EAST Search History

S57	556	(different with (ink or liquid) with (film or membrane) with separat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:12
S58	93	ink and (different with (ink or liquid) with (film or membrane) with separat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:13
S59	64	ink and (different with (ink) with (film or membrane) with separat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:13
S60	64	(different with (ink) with (film or membrane) with separat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:17
S61	153	(347/85 or 347/86) and (film or membrane) with (separat\$3 or between) with (ink or liquid) same (recess or cavity or chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:24
S62	7	(347/85 or 347/86) and (inks or liquids) with four with chamber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:24
S63	7	ink\$jet\$4 and vibrat\$3 with removabl\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:28
S64	309	ink\$jet\$4 and vibrat\$3 with remov\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/01 13:28



## EAST Search History

S65	8	"1273355".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/08/23 08:36
S66	1	10/824658	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/08/21 10:24
S67	41	("20020070239" "6523762" "6142607" "1273355" "1149602" "6766817" "0923957" "1005916" "0006388" "200006388").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 07:57
S68	1	2003-177404.NRAN.	DERWENT	AND	OFF	2006/08/21 12:36
S69	74	hess.in. near joseph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/21 13:41
S70	4	( "20030107159" "6323762" "1273355" "5900894" "20030085966" "4434430" "20020458952").pn. and (piezo or piezoelectric or pzt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:22
S71	1	10/824658	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:27
S72	2	( "20030107159" "6323762" "1273355" "5900894" "20030085966" "4434430" "20020458952").pn. and (flex\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:54
S73	4	( "20030107159" "6323762" "1273355" "5900894" "20030085966" "4434430" "20020458952").pn. and (flex\$5 or movable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:25

## EAST Search History

S74	1	"347"/\$3 and (airless near bag)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:28
S75	1	"347"/\$3 and (air\$3less near bag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:30
S76	1	"347"/\$3 and (flexible same (leak near (tight or proof)) same (sub\$spac\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:36
S77	2	"347"/\$3 and (flexible same (leak near (tight or proof)) same (spac\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/23 08:39
S78	2	"347"/\$3 and (flexible same (leak near (tight or proof)) same (reservior or chamber or area or spac\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/23 08:43
S79	244	"347"/\$3 and (flexible same (leak near\$3 (tight or proof)) same (reservior or chamber or area or spac\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/23 08:44
S80	2	"347"/\$3 and (flexible same (leak with (tight or proof)) same (reservior or chamber or area or spac\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/23 08:45
S81	27	"347"/\$3 and (flexible same (prevent with ink with leak\$3) same (reservior or chamber or area or spac\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/23 08:45

## EAST Search History

S82	1	10/824658	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 14:45
S83	8	"1273355".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 14:33
S84	1	2003-177404.NRAN.	DERWENT	AND	OFF	2007/02/08 14:31
S85	2	"5900894".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 14:34
S86	2	"20010006396"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 14:49
S87	1	10/909044	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/08 14:49
S88	7	(sub\$1spac\$3) with (liquid or ink) with (flexible or movable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 14:53
S89	5217	(347/85,86,22).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/09 08:32
S90	5217	(347/85,86,22).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/09 08:32

## EAST Search History

S91	7	S90 and (flexible or membrane or movable) with (separat\$3 or divid\$3 or secur\$3) with (liquid or ink) near (two or different or fixing or coat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/02/09 09:39
S92	4	("20030043242" or "6447093").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/02/09 09:33
S93	55	((flexible or membrane or movable) with (separat\$3 or divid\$3 or secur\$3) with (liquid or ink) near (two or different or fixing or coat\$3)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/06/13 10:47
S94	8	"1273355"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/02/09 10:07
S95	4	("6323762" "5526957").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 10:16
S96	1	10/824658 and space.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 10:12
S97	1	10/824658 and space.clm. same liquid.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 10:12
S98	1	("6323762" "5526957").pn. and ("102" and "100")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 10:17